BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains Iyyangar House Road in Ward No. 10, Doddabommasandra, Vidyaranyapura Sub Division.**

	010-17-000008		P-3173				Estimate Cost:		2000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation** by **manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD**	Cum							
	Iyyangar House Road CC Drain		1	200.00	1.00	0.95	190.00		
	Seethappa Layout		1	100.00	1.00	0.95	95.00		
	Culvert		1	6.00	2.00	1.20	14.40		
	Basic Rate	82.00					**299.40**	199.36	**59690.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @ 6%	11.28							
	Total	**199.36**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in **foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. Page **No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	Iyyangar House Road CC Drain		1	200.00	1.00	0.15	30.00		
	Seethappa Layout		1	100.00	1.00	0.15	15.00		
	Culvert		1	6.00	1.80	0.15	1.62		
	Basic Rate	4867.00					**46.62**	5159.02	**240514.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
3	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9, PWD SR 2016-17**	Cum							
	Culvert		2	6.00	0.60	0.90	6.48		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	5005.00					**6.48**	5305.30	**34378.00**
	Area Weightage @ 6%	300.30							
	Total	**5305.30**							
4	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications Page **No. 113 / Item No. 15.1, PWD SR 2016-17**	Sqm							
			2	6.00		0.90	10.80		
	Basic Rate	97.00					**10.80**	102.82	**1110.00**
	Area Weightage @ 6%	5.82							
	Total	**102.82**							
5	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	Culvert Pointing		1	6.00	1.80	0.10	1.08		
	Ramp		2	6.00	1.00	0.15	1.80		
	CC Drain Ramp		1	200.00	0.30	0.12	7.20		
			1	100.00	0.30	0.12	3.60		
	Basic Rate	5441.00					**13.68**	5767.46	**78899.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
6	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing,transportation,loading unloading, etc., complete as per the direction of engineer in charge - Data rate	Sqm							
			1	6.00	1.80		10.80		
							10.80	5125.00	**55350.00**
	Basic Rate	5125.00							
7	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) **M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary** beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	Bottom Concrete		1	200.00	0.90	0.15	27.00		
			1	100.00	0.90	0.15	13.50		
	Side Wall		2	200.00	0.15	0.60	36.00		
			2	100.00	0.15	0.60	18.00		
	Basic Rate	5879.00					**94.50**	6231.74	**588899.00**
	Area Weightage @ 6%	352.74							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	**6231.74**							
8	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 **Page No. 17 / Item No. 4.46.2,** PWD SR 2016-17	Tonne							
	For Roof, Columns @ 60 Kg / Cum		0.06	94.50			**5.67**	59413.00	**336872.00**
	Basic Rate	56050.00							
	Area Weightage @ 6%	3363.00							
	Total	**59413.00**							
9	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface** such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Page No. 15 / Item **No. 4.31 PWD SR 2016-17**	Sqm							
	Side Wall		4	200.00		0.60	480.00		
			4	100.00		0.60	240.00		
	Basic Rate	293.00					**720.00**	310.58	**223618.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
10	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete Page **No. 25 / Item No. 5.31.1 PWD SR** 2016-17	Sqm							
	For Covering Slab		1	200.00		0.90	180.00		
	Basic Rate	779.00					**180.00**	825.74	**148633.00**
	Area Weightage @ 6%	46.74							
	Total	**825.74**							
11	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 Page No. 24 / Item **No. 5.22, PWD SR 2016-17**	m							
			333	3.00			**1000.00**	37.10	**37100.00**
	Basic Rate	35.00							
	Area Weightage @ 6%	2.10							
	Total	**37.10**							
12	KSRB 5-8.2 : Providing two line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13 **Page No. 24 / Item** No. 5.18, PWD SR **2016-17**	Sqm							
			Qty Vide Item No. 10				180.00		
							180.00	963.54	**173437.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	909.00							
	Area Weightage @ 6%	54.54							
	Total	**963.54**							
	Sub Total								**1978500.00**
	For Third Part QC inspection Charges @ 1%								**19785.00**
	Miscellaneous and other Charges	L/S							**1715.00**
								Total	**2000000.00**
Rupees Twenty Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2015-16 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer

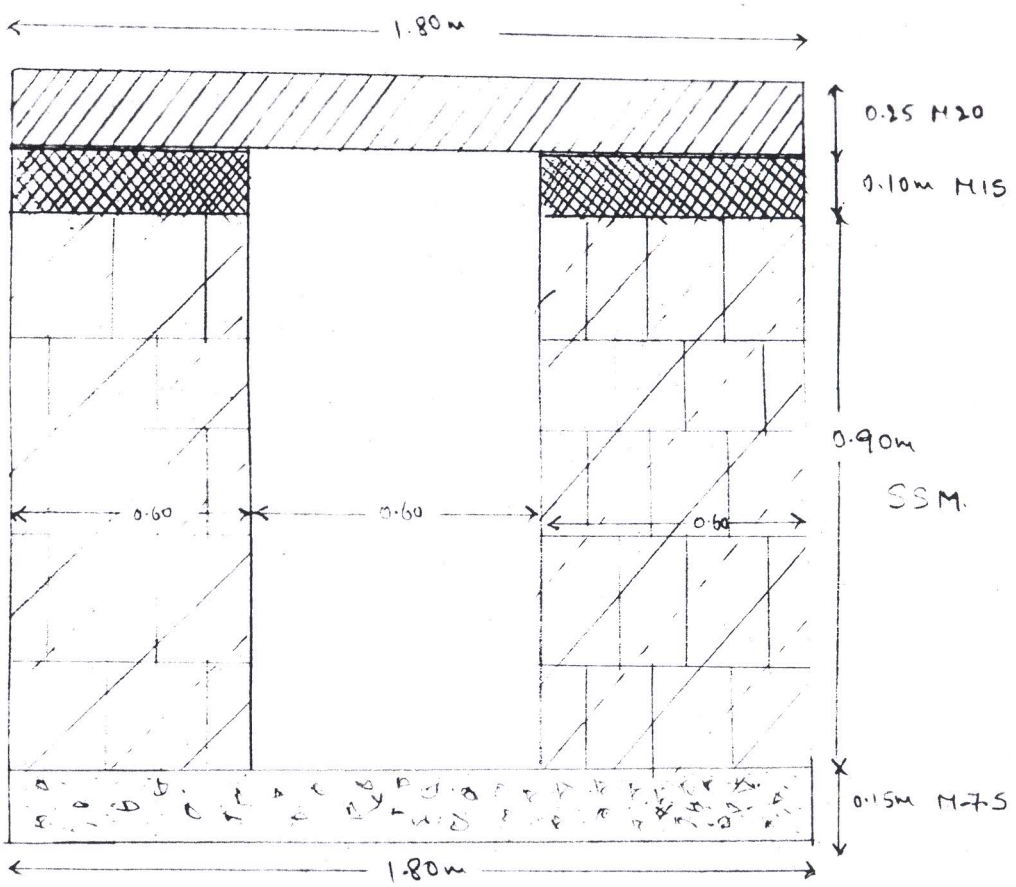
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For Rs 20.00 lakhs.
Head of A/C P3173
CER NO : 210 Dt: 25.02.17

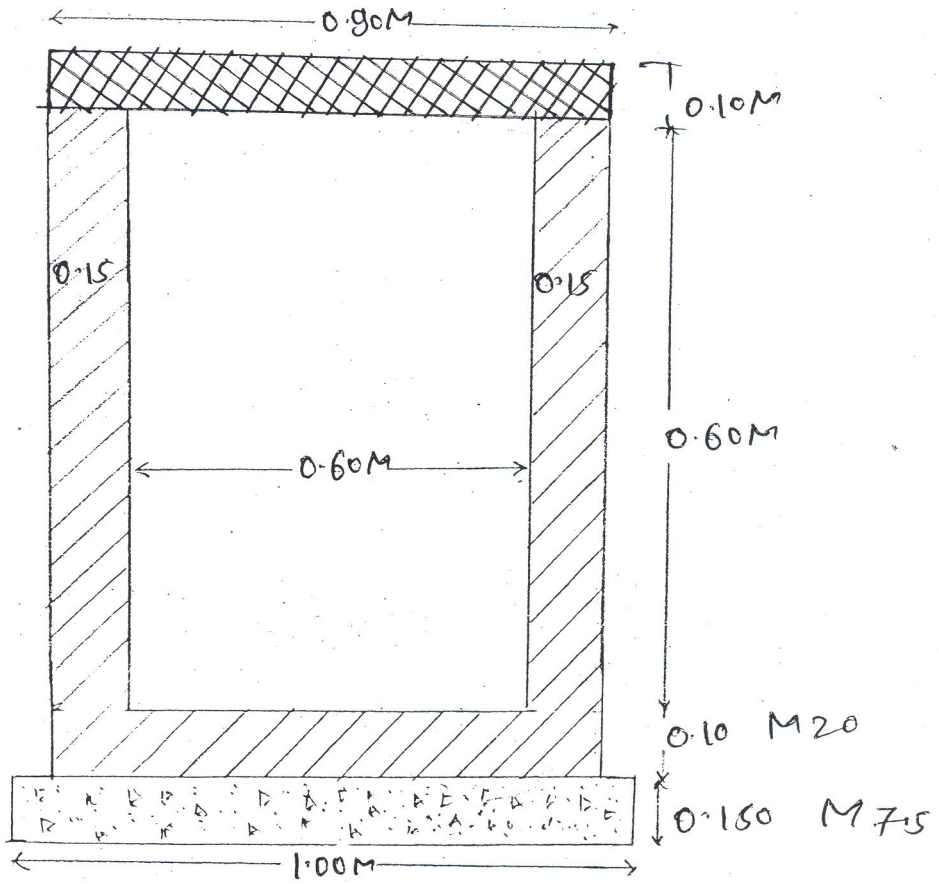
TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs Twenty lakhs only
Head of A/c P-3173
Div. Ref. No 159/16-17 Date 16/03/17
AE 16/03
E.E. (BTP. DIV) 16/03



CROSS SECTION OF CULVERT

Jadhao
AE



CROSS SECTION OF CC DRAIN

Sadhna
AE